IN THE UNITED STATES PATENT AND TEMPERARK OFFICE

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Applicant: Wolfgang Ehrfeld

International Application No.: PCT/EP00/05366

International Filing Date: 10 June 2000
Title:

Agent's Reference No.: MICROMIXER

FMW-RR-PCT-US

Date: December 14, 2001

BOX PCT U.S. Receiving Office Commissioner of Patents and Trademarks Washington, D.C. 20231

INFORMATION DISCLOSURE STATEMENT

Sir:

The present invention relates to known static micromixers that work according to the principle of multilamination allow for a rapid mixing by diffusion. The invention provides a means for substantially increasing the throughput of known micromixers. To this end, the inventive micromixer for mixing two or more reactants comprises microstructures that define mixer cells. Each of said mixer cells is provided with a feeding chamber which adjoins at least two groups of digital channels. Said channels intermesh with the digital channels of the groups adjoining the feeding channels in a comb-like manner, thereby producing mixing zones. Outlet ports are located above said mixing zones, said outlet ports extending perpendicularly to the digital channels and discharging the product. The inventive micromixer is especially useful for the large-scale production of mixtures, dispersions and emulsions.

As athorized and encouraged under 2 FR \$1 97-1 99 annicant hereby cites as a means of complying with the duty of disclosure set form in 37 C.F.R. \$1.56, the following patents and/or documents, copies enclosed, which the Examiner should consider with respect to the above-identified United States Patent Application:

	U.S. DOCUMENTS		
PATENT/DOCUMENT NO.	DATE	INVENTOR Harbster et al	
5,595,712	January 21, 1997		
	FOREIGN DOCUMENTS		
PATENT/DOCUMENT NO.	DATE	COUNTRY EP EP	
0 495 169	July 22, 1992		
0 870 541	October 14, 1998		
WO 94/21372	September 29, 1994	WIPO	

Copies of the publications are included for the express purpose of providing the Patent and Trademark Office with an ample opportunity to evaluate the same and to arrive at an independent assessment of their materiality, if any, with regard to the examination of the application.

In reviewing the enclosed copies of the above publications, the Examiner is requested to ignore any underscoring or highlighting which may appear because such markings may or may not have any relationship to the subject matter of the above-identified application. The copies being submitted with this Information Disclosure Statement are the best copies available at this time.

An examination of the present application considering the above documents is requested.

Respectfully submitted,

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Attorney Docket No.: FMW-RR-PCT-US

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LIST OF	Patent and Trademark Office LIST OF PRIOR ART CITED BY APPLICANT (Use several sheets if necessary)			FMW-RR-PCT-US		1101.	
				Applicant: Wolfgang Ehrfeld et al.			
				Filing Date: December 14, 2001	Group		
			U.S. PATENT D	DOCUMENTS			
Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing date if appropriate
	AA	5,595,712	January 21, 1997	Harbster et al.	+		appropriate
	AB				+		
	AC				+		
	AD				+		
	AE				_		
	AF				1		
	AG				†		
	AH						
	Al						
	AJ						
	AK						
			FOREIGN PATENT I	DOCUMENTS			
		Number Number	Date	Country	Class	Subclass	Translation Yes No
	AL	0 495 169	July 22, 1992	EP			
	AM	0 870 541	October 14, 1998	EP			
	AN	WO 94/21372	September 29, 1994	WIPO			
	AO						
	AP						
		OTHER PRIO	R ART (Including Author, T	itle, Date, Pertinent Pages, Etc.))		
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XAMINER: Initi	ial if refere	ence considered, who	ether or not citation is in co	nformance with MPEP 609; Dra form with next communication	w line thro	ough citation	if not in